

## Monkey Neurofilament light polypeptide (NEFL) ELISA Kit | NEFL elisa kit

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CATALOG #  
**AAA27164**

REACTIVITY  
**Monkey**

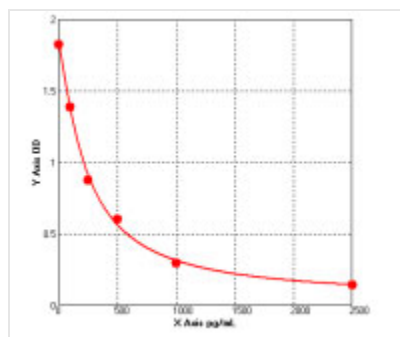
### PRODUCT SYNONYMS

Neurofilament light polypeptide (NEFL); Monkey Neurofilament light polypeptide (NEFL) ELISA Kit; NEFL elisa kit

### PRODUCT SPECIFICATIONS

|                         |                                                                                                                                                                                                                                                                                                                                                                                          |
|-------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Reactivity              | Monkey                                                                                                                                                                                                                                                                                                                                                                                   |
| Specificity             | This assay has high sensitivity and excellent specificity for detection of NEFL. No significant cross-reactivity or interference between NEFL and analogues was observed. NOTE: Limited by current skills and knowledge, it is impossible for us to complete the cross-reactivity detection between NEFL and all the analogues, therefore, cross reaction may still exist in some cases. |
| Assay Type              | Quantitative Competitive                                                                                                                                                                                                                                                                                                                                                                 |
| Samples                 | Serum, plasma, cell culture supernatants, body fluid and tissue homogenate                                                                                                                                                                                                                                                                                                               |
| Sensitivity             | 1.0 pg/mL                                                                                                                                                                                                                                                                                                                                                                                |
| Preparation and Storage | Store all reagents at 2-8 degree C.                                                                                                                                                                                                                                                                                                                                                      |

### IMAGES



Standard Curve (Sample)

## ADDITIONAL INFORMATION

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|------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Related Product Information for NEFL elisa kit | <p>Principle of the Assay: NEFL ELISA kit applies the competitive enzyme immunoassay technique utilizing a polyclonal anti-NEFL antibody and an NEFL-HRP conjugate. The assay sample and buffer are incubated together with NEFL-HRP conjugate in pre-coated plate for one hour. After the incubation period, the wells are decanted and washed five times. The wells are then incubated with a substrate for HRP enzyme. The product of the enzyme-substrate reaction forms a blue colored complex. Finally, a stop solution is added to stop the reaction, which will then turn the solution yellow. The intensity of color is measured spectrophotometrically at 450nm in a microplate reader. The intensity of the color is inversely proportional to the NEFL concentration since NEFL from samples and NEFL-HRP conjugate compete for the anti-NEFL antibody binding site. Since the number of sites is limited, as more sites are occupied by NEFL from the sample, fewer sites are left to bind NEFL-HRP conjugate. A standard curve is plotted relating the intensity of the color (O.D.) to the concentration of standards. The NEFL concentration in each sample is interpolated from this standard curve</p> <p>Intended Uses: This NEFL ELISA kit is a 1.5 hour solid-phase ELISA designed for the quantitative determination of Monkey NEFL. This ELISA kit for research use only, not for therapeutic or diagnostic applications!</p> |
| Product Categories/Family for NEFL elisa kit   | Signal Transduction                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |

## NCBI AND UNIPROT INFORMATION

|                                  |                                                                                                                                                                                                                                                                       |
|----------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| NCBI GI #                        | 105990539                                                                                                                                                                                                                                                             |
| NCBI GeneID                      | 4747                                                                                                                                                                                                                                                                  |
| NCBI Accession #                 | NP_006149.2                                                                                                                                                                                                                                                           |
| NCBI GenBank Nucleotide #        | NM_006158.4                                                                                                                                                                                                                                                           |
| Molecular Weight                 | 61,517 Da                                                                                                                                                                                                                                                             |
| NCBI Official Full Name          | neurofilament light polypeptide                                                                                                                                                                                                                                       |
| NCBI Official Synonym Full Names | neurofilament, light polypeptide                                                                                                                                                                                                                                      |
| NCBI Official Symbol             | NEFL                                                                                                                                                                                                                                                                  |
| NCBI Official Synonym Symbols    | NFL; NF-L; NF68; CMT1F; CMT2E; PPP1R110                                                                                                                                                                                                                               |
| NCBI Protein Information         | neurofilament light polypeptide; neurofilament subunit NF-L; neurofilament triplet L protein; neurofilament protein, light chain; neurofilament, light polypeptide 68kDa; light molecular weight neurofilament protein; protein phosphatase 1, regulatory subunit 110 |
| UniProt Protein Name             | Neurofilament light polypeptide                                                                                                                                                                                                                                       |
| UniProt Gene Name                | NEFL                                                                                                                                                                                                                                                                  |
| UniProt Synonym Gene Names       | NF68; NFL; NF-L                                                                                                                                                                                                                                                       |
| UniProt Entry Name               | NFL_HUMAN                                                                                                                                                                                                                                                             |

**For Research Use Only.** Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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